

- Species I: Claims 1-8, 13 drawn to a microfluidic system, classified in class 137, subclass 560;
- Species II: Claim 9, drawn to a microfluidic system and valve, classified in class 137, subclass 802;
- Species III: Claim 10, drawn to a microfluidic system and a pump, classified in class 417, subclass 313;
- Species IV: Claim 11, drawn to a microfluidic system and a reservoir, classified in class 220, subclass 62.11;
- Species V: Claim 12, drawn to a microfluidic system and a mixer, classified in class 366, subclass 349;
- Species VI: Claim 14, drawn to a microfluidic system and a filter, classified in class 210, subclass 251;
- Species VII: Claims 15, 34, 36, 40-43, drawn to a microfluidic system and a dispenser, classified in class 239, subclass 575;
- Species VIII: Claim 16, drawn to a microfluidic system and a reactor, classified in class 422, subclass 129;
- Species IX: Claim 17, drawn to a microfluidic system and a heater, classified in class 237, subclass 1R;
- Species X: Claim 18, drawn to a microfluidic system and a concentrator, classified in class 422, subclass 256;
- Species XI: Claim 19, drawn to a microfluidic system and a pressurizer, classified in class 137, subclass 365.01;
- Species XII: Claim 20, drawn to a microfluidic system and a cooling device, classified in class 62, subclass 331;
- Species XIII: Claims 21-33, 38-39, drawn to a microfluidic system and a sensor, classified in class 73, subclass 432.1;
- Species XIV: Claims 35, 44-45, drawn to a microfluidic system and a heat exchanger, classified in class 165, subclass 138;
- Species XV: Claim 37, drawn to a microfluidic system and a fuel cell, classified in class 429, subclass 12.

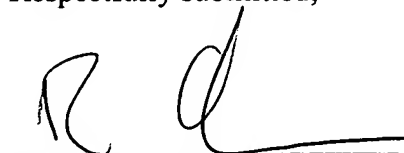
The Examiner requires an election of a single alleged species, an identification of the species, and a listing of all claims readable thereon.

In response, the applicant elects, with traverse, the alleged Species I, claims 1-8 and 13. Claim 1 is generic to at least the elected claims.

Each of Examiner's rejections has been addressed or traversed. Accordingly, it is respectfully submitted that the application is in condition for allowance. Early and favorable action is respectfully requested.

If for any reason this Response is found to be incomplete, or if at any time it appears that a telephone conference with counsel would help advance prosecution, please telephone the undersigned or his associate, Joseph S. Iandiorio, collect in Waltham, Massachusetts, (781) 890-5678.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R J Coleman', written over a horizontal line.

Roy J. Coleman
Reg. No. 48,863